

FLUOROCARBACYCLIC NUCLEOSIDE AND PRODUCTION THEREOF

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Abstract

NEW MATERIAL: A 5'-substituted-3'-fluorocarbacycllic nucleoside derivative expressed by formula I [X is NR<1>R<2> (R<1> and R<2> are H or protecting group) or N3; Y is H, hydroxyl group or protected hydroxyl group; B is nucleic acid bases or residue of nucleic acid base analog).

EXAMPLE: 1-[3alpha-Fluoro-4beta-azidomethyl-2beta-cyclopentyl]thymine.

USE: Useful as an antitumor agent and antiviral agent, capable of exhibiting excellent effects in aspects of metabolic antagonistic action, etc., and widely usable for agricultural chemical applications, etc.

PREPARATION: The hydroxyl group at the 5'-position of a 3'-fluorocarbacycllic nucleoside derivative expressed by formula II (R is activating or protecting group) is converted into the group NR<1>R<2> or N<3> and the protecting groups, as necessary, are removed to afford the compound expressed by formula I.

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